

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/051713

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 G06F3/033

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, IBM-TDB

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 597 348 B1 (YAMAZAKI SHUNPEI ET AL) 22 July 2003 (2003-07-22) figure 1 figures 5A,5B figures 7A,7B,7C column 2, line 37 - column 3, line 1 column 5, line 52 - column 9, line 41 -----	1,3,6,7, 10-13
A	US 4 668 861 A (WHITE ET AL) 26 May 1987 (1987-05-26) column 1, line 66 - column 2, line 52 column 4, line 6 - column 5, line 40 figure 1 ----- -/-	1,3,12, 13

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
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- \*P\* document published prior to the International filing date but later than the priority date claimed

\*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the International search

Date of mailing of the International search report

30 May 2005

06/06/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2 074 428 A (WE) 28 October 1981 (1981-10-28) cited in the application page 1, line 66 - line 88 page 2, line 33 - line 93 page 4, line 29 - line 110 figures 2,3 figures 8,9 -----	1

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/IB2004/051713

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 6597348	B1	22-07-2003	JP	2000259347 A		22-09-2000
US 4668861	A	26-05-1987	CA	1246182 A1		06-12-1988
			EP	0204824 A1		17-12-1986
			WO	8603618 A1		19-06-1986
GB 2074428	A	28-10-1981	US	4346376 A		24-08-1982
			AU	541152 B2		20-12-1984
			AU	6947081 A		22-10-1981
			BE	888444 A1		31-07-1981
			CA	1185383 A1		09-04-1985
			DE	3114354 A1		24-06-1982
			ES	8205078 A1		01-09-1982
			FR	2480967 A1		23-10-1981
			HK	69884 A		14-09-1984
			IT	1137373 B		10-09-1986
			JP	57071039 A		01-05-1982
			KR	8402277 B1		14-12-1984
			NL	8101878 A		16-11-1981
			SE	441870 B		11-11-1985
			SE	8102252 A		17-10-1981
			SG	33184 G		08-02-1985
			US	4484179 A		20-11-1984
			CA	1189206 A1		18-06-1985